SECRET

Variable Magnification Tracing Projector

23 April 1964

MEMORANDUM FOR: Chief, Development Branch, Plans and Development Staff, NPIC

SUBJECT : Report of Trip to Bausch and Lomb, 17 April 1964.

1. On 17 April, I visited Bausch & Lomb for the purpose of monitoring contracts on the Panoramic Stereo Viewer and the Variable Magnification Tracing Projector. Details of the modifications for the High Power Stereo Viewer were also agreed upon.

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2. B & L Electronic Engineers proposed to design a new type drive system for the Panoramic Stereo Viewer. It would work off the film reels instead of the transparent drums. Film travel would be controlled very accurately so that exactly the same speed would be achieved on both sides when interlocked in the scan mode, regardless of the amount of film on either spool. I pointed out that this precision was not required because of the nature of some of the film to be used on the instrument. However, both sides should move in approximate synchronization.

3. A relaxation of the requirement for handling 1000 foot reels will be a help to the Engineers. Information on maximum film size and weight will be relayed to Bausch & Lomb.

4. The Variable Magnification Tracing Projector is progressing satisfactorily. The April 30 delivery date will slip back to approximately May 30.

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5. Modifications to be made on the production model High Power Stereo Viewer are:

a. On the right hand stage, the X-Y scan control knobs, presently located just to the left of the viewing stage, will be moved to the right side of the stage so as to be easily accessible to the operator.

b. Index marks will be added to the image rotation wheels with ticks and numerals to indicate 45° intervals up to 180° to the left and right of the 0° positions. Ticks without numerals will mark each 15° interval.

c. The knob for shifting the prism in selecting stereo and monocular viewing will be changed to a low fitting short lever. This will make it easy to distinguish from the Zoom control knob.

d. Interpupillary distance will be set in a manner similar to that used on the B&L Tri Power Viewer. The control for the Tri Power is a lever which is shifted back and forth to vary the distance.

e. Continuously variable rheostat controls will be substituted for the step switch transformers now used. If possible, a single box will house both rheostats and this box will be mounted on the base plate between the viewing stages.

f. Objective lenses to be supplied with each instrument are 2.6, 3.5, 6, and 10X; the 3.5, 6, and 10X lenses are parfocal.

g. A storage case will be provided for holding the extra eyepieces, filters, monocular tubes, etc.

h. The shafts on the zoom controls will be black with white markings so as to be easily read.

i. The four position turrets will have adjusting screws that permit precise alignment to accommodate objectives other than those made by Bausch & Lomb.

j. In addition to the daylight and neutral density filters, heat filters will also be included.

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6. After receipt of order, the lead time will be 28 weeks for completion of a preproduction model. Delivery of instruments will be at the rate of two each week starting four weeks after acceptance of the preproduction model.

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Development Branch, P&DS